Minnesota

Science and Engineering Profile

	STATE	U.S.	Rank		STATE	U.S.	Rank
Doctoral scientists,1995	8,324	453,928	18	Total R&D performance, 1995 (millions)	$3,087	$177,210	19
Doctoral engineers,1995	1,262	86,738	22	Industry R&D, 1995 (millions)	$2,636	$130,332	14
S&E doctorates awarded, 1996	505	27,230	18	Academic R&D, 1996 (millions)	$341	$22,481	23
of which, in life sciences	31%	25%		of which, in life sciences	72%	56%	
in engineering	23%	23%		in engineering	10%	16%	
in social sciences	14%	15%		in mathematics and computer sciences	5%	4%	
S&E postdoctorates, 1996 in doctorate-granting institutions	756	37,019	15	Higher education current-fund expenditures, 1995 (millions)	$3,484	$182,602	18
S&E graduate students, 1996 in doctorate-granting institutions	6,034	430,631	25	Number of SBIR awards, 1990-1997	490	31,155	18
				Patents issued to state residents, 1997	1,829	61,699	11
Population, 1997 (000s)	4,686	271,464	20	Gross state product, 1996 (billions)	$141.6	$7,677.4	18
Civilian labor force, 1997 (000s)	2,625	137,564	20	of which, agriculture	3%	2%	
				manufacturing, mining, construction	24%	23%	
Personal income per capita, 1997	$26,797	$25,598	11	transportation, communication, utilities	8%	8%	
				wholesale and retail trade	17%	16%	
Federal spending				finance, insurance, real estate	18%	19%	
Total expenditures, 1997 (millions)	$20,088	$1,405,060	25	services	19%	20%	
R&D obligations,1996 (millions)	$678	$66,087	23	government	11%	12%	

Rankings and totals are based on data for the 50 states, D.C., and Puerto Rico.
Data on S&E postdoctorates and S&E graduate students include health fields.

Federal Obligations for Research and Development by Agency and Performer: Fiscal Year 1996

[Thousands of Dollars]

	Total	Federal Intramural	All FFRDCs	Industrial firms	Universities & Colleges	Other nonprofits	State & local government	State rank
Total, all agencies	678,477	31,742	0	345,050	187,673	110,073	3,939	23
Department of Agriculture	22,111	14,466	0	164	7,463	18	0	20
Department of Commerce	18,358	185	0	17,114	1,059	0	0	16
Department of Defense	366,991	683	0	313,308	9,079	43,921	0	21
Department of Energy	6,079	0	0	37	6,042	0	0	32
Dept. of Health & Human Services	200,207	877	0	4,595	126,589	65,344	2,802	15
Department of Interior	4,312	4,024	0	8	225	0	55	30
Department of Transportation	3,722	0	0	2,475	165	0	1,082	27
Environmental Protection Agency	15,098	11,507	0	1,053	2,488	50	0	8
Nat'l Aeronautics & Space Admin.	7,559	0	0	4,701	2,485	373	0	31
National Science Foundation	34,040	0	0	1,595	32,078	367	0	20
State rank	23	37	na	19	22	8	10	

Federal R&D obligations are as reported by funding agencies.
FFRDC = federally funded research and development center
SBIR = small business innovation research
na = not applicable

Prepared by the National Science Foundation/ Division of Science Resources Studies. Data compiled from numerous sources.